

# Work Order ID 55900

February 4, 2010 8:51:53 AM

Page 1

Item ID: D350-561-045

Accept

Setup Start

Revision ID:

Stop

Item Name: Dual Mirror Accessory kit

Start Date: 2/05/10 Start Qty: 4.00

Cust Item ID:

Required Date: 2/05/10 Req'd Qty: 4.00

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Draw  
Number

Draw  
Rev.

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

D350-561

Rev C

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-561-045 CHG002

Solala

110

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

27 8/10/2/04

(44)

120

Packaging

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D350-561-045

Leva

PP

55899

10-2-4

54 (4x)

**Work Order ID 55900**

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Item ID: D350-561-045

Accept

Setup Start

Revision ID:

Stop

Item Name: Dual Mirror Accessory kit

Start Date: 2/05/10 Start Qty: 4.00

Cust Item ID:

Required Date: 2/05/10 Req'd Qty: 4.00

Customer:

Reference:

Run Start

Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

130

QC21- Final Inspection - Work Order Release

0.00

QC

Memo

0.00

Quality Control

10/02/04 *[Signature]*  
mf  
10-2-4

# Picklist Print

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Work Order ID: 55900

Parent Item: D350-561-045

Parent Item Name: Dual Mirror Accessory kit

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP D[05.09.15] Step 3 pick list revised per D350-561 Rev. C [KJ/JLM]

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3-4A Bolt		Purchased	No			110	Each	2,025.000	4.0000			

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

2025

104214

466

104291

300

104322

200

104374

200

104625

300

104817

559

AN3-5A

Purchased

No

110

Each

1,799.000 4.0000

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

1799

100188

188

105057

1611

AN960JD10

Purchased

No

110

Each

0.0000 24.0000

Washer

AN960JD416

Purchased

No

110

Each

0.0000 8.0000

Washer

QSI 017  
SD

10-2-4

sl

4

10-2-4 sl

4

M113368 10-2-4 sl

M113524 10-2-4 sl

# Picklist Print

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Work Order ID: 55900

Parent Item: D350-561-045

Parent Item Name: Dual Mirror Accessory kit

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP D105.09.15 Step 3 pick list revised per D350-561 Rev. CLKJ/JLM

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2011-101 6" Mirror		Manufactured	No			110	Each	31.0000	4.0000		10-2-4	

Warehouse      Loc Qty      Loc Code  
Location

Main Warehouse

ST

31

53992

31

110

Each

53.0000

8.0000

D2012-113

Clamp

Warehouse      Loc Qty      Loc Code  
Location

Main Warehouse

ST004

53

32552

24

35463

29

110

Each

27.0000

8.0000

D2856-100-325

Abrasion Strip

Warehouse      Loc Qty      Loc Code  
Location

Main Warehouse

ST

27

30822

7

34142

20

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Shop Packet Print

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# Picklist Print

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Page 3

Work Order ID: 55900



Parent Item: D350-561-045



Parent Item Name: Dual Mirror Accessory kit

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP D05.09.15 Step 3 pick list revised per D350-561 Rev. C [KJ/JLMi]

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21042L3		Purchased	No			110	Each	2,811.000	8.0000			

Nut



10-2-4

sl

4x

Warehouse                      Loc Qty                      Loc Code

Location

Main Warehouse

ST	2811	
110844	35	
111274	27	
111668	52	
112314	289	
112385	498	
113523	210	
113537	700	
113644	1000	

8

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Shop Packet Print

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## 4. WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-561-041	2.5 lb	+39.0 in	+97.5 in-lb	9.0 in	22.5 in-lb
Single Mirror Installation	1.1 kg	+0.99 m	+1.09 m-kg	0.23 m	0.25 m-kg
D350-561-043	3.2 lb	+40.0 in	+128.0 in-lb	8.8 in	28.2 in-lb
Dual Mirror Installation	1.5 kg	+1.02 m	+1.53 m-kg	0.22 m	0.33 m-kg

## 5. PARTS LIST

Qty -041	Qty -043	Qty -045	Part Number	Description
X	1	1	D350-561-041	SINGLE MIRROR INSTALLATION
	X		D350-561-043	DUAL MIRROR INSTALLATION
	X	X	D350-561-045	MIRROR KIT
1		1	D2011-101	Mirror
1			D2012-101	Arm
1			D2012-103	Arm
1			D2012-105	Arm
2			D2012-107	Clevis
1			D2012-109	Bracket
1			D2012-111	Bracket
4		2	D2012-113	Clamp
1			D2012-115	Bracket
4			D2022-101	Spacer
4		2	D2856-100-325	Abrasion Strip
1*		1*	D3014-1	Locknut
2		1	AN3-4A	Bolt
2		1	AN3-5A	Bolt
1			AN3-6A	Bolt
3			AN4-5A	Bolt
2			AN4-10A	Bolt
14		6	AN960JD10	Washer
9		2	AN960JD416	Washer
1*		1*	AN960JD416L	Washer
5		2	MS21042L3	Nut (or MS21042-3)
5			MS21042L4	Nut (or MS21042-4)

\*INCLUDED AS PART OF D2011-101 MIRROR

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



DESIGN <i>B</i>	DRAWN BY <i>DC</i>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>UE</i>	APPROVED <i>HA</i>	DRAWING NO. DSI 9379	REV. B SHEET 1 OF 5
DATE 07.11.26		TITLE CARGO MIRROR UPGRADE KIT	SCALE NTS
A	07.07.10	NEW ISSUE	
B	07.11.26	MS21919WDG7 WAS MS21929WDG7	

REFERENCE ONLY

## **DART SERVICE INSTRUCTION**

TO AMEND INSTALLATION INSTRUCTIONS D350-561 REV. C

REF. CANADIAN STC: SH91-20 ISSUE 2

REF. FAA STC: SH856NE

To reduce vibration, Dart has developed the D350-561-141/-143 Mirror Installations to replace the D350-561-041/-043 Mirror Installations. For customers with D350-561-041/-043 Mirror Installations at CHG 005 or earlier who would like to upgrade their installation, the DSI 9379-011 Upgrade Kit can be obtained from Dart. The components for DSI 9379-011 Kit are as defined in Section 1.0 below.

Customers upgrading their installation from D350-561-041/-043 to D350-561-141/-143 should follow instructions given in Figures 1 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

Customers who are installing a D350-561-141/-143, should refer to Figures 2 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

### **1.0 PARTS LIST**

Qty -141	Qty -143	Qty -045	Qty -011	Part Number	Description
X	1			D350-561-141	SINGLE MIRROR INSTALLATION (REPLACES -041)
	X			D350-561-143	DUAL MIRROR INSTALLATION (REPLACES -043)
	1	X		D350-561-045	MIRROR KIT
			X	DSI 9379-011	UPGRADE KIT
1		1		D2011-101	MIRROR
1				D2012-105	ARM
1				D2012-107	CLEVIS
1				D2012-111	BRACKET
		2		D2012-113	CLAMP
1				D2012-115	BRACKET
2				D2022-101	SPACER
1*		1*		D3014-1	LOCKNUT
1			1	D3629-1	BRACKET
1			1	D3635-1	GASKET
2			2	D3635-3	GASKET
1			1	D3646-1	ARM
1			1	D3646-3	ARM
3			3	AN3-4A	BOLT
2			2	AN3-5A	BOLT
1				AN3-6A	BOLT
1				AN4-5A	BOLT
1				AN4-10A	BOLT
12			10	AN960JD10	WASHER
4				AN960JD416	WASHER
1*		1*		AN960JD416L	WASHER
6			5	MS21042L3	NUT (OR MS21042-3)
2				MS21042L4	NUT (OR MS21042-4)
2			2	MS21919WDG7	CLAMP

\*INCLUDED AS PART OF D2011-101 MIRROR

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY: *[Signature]*  
D. SHEPHERD (DE # 02)

DATE: 07.11.30  
CERT. NO.: SH91-20  
ISSUE NO.: 2

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# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries